

## AMENDMENTS TO THE CLAIMS

1. – 8. (canceled)

9. (currently amended) A method of making a hole of a first predetermined diameter in a dura of a patient having a cranium for the insertion of a catheter having a second predetermined diameter, comprising the steps of:

~~determining whether to create~~ creating a burr hole in said cranium of said patient; inserting a first end of ~~said stylet~~ a stylet with a tip having a hemispherical shape with a diameter approximately equal to said first predetermined diameter into said burr hole of said cranium, wherein said first predetermined diameter is not greater than said second predetermined diameter;

applying an electrical current to said tip of said stylet in order to cauterize said dura creating a hole in said dura approximately equal to said diameter of said tip; and

inserting a second end of said stylet into a lumen of a catheter with said second end of said stylet proximal to a distal end of said catheter.

10. – 12. (canceled)

13. (original) A method as in claim 9 wherein said first predetermined diameter is approximately equal to said second predetermined diameter.

14. (original) A method as in claim 9 wherein said first predetermined diameter is smaller than said second predetermined diameter.

15. (original) A method as in claim 14 wherein said first predetermined diameter is approximately fifteen percent (15%) smaller than said second diameter.

16. – 21. (canceled)

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22. (previously presented) A method as in claim 9 further comprising the steps of:  
stretching said catheter on said stylet into a stretched state with a stretched outside diameter;  
inserting said catheter into said hole in said dura;  
relaxing said catheter into a relaxed state.
23. (previously presented) A method as in claim 22 wherein said second predetermined diameter of said catheter in said relaxed state is approximately equal to said first predetermined diameter.
24. (previously presented) A method as in claim 22 wherein said stretched outside diameter is less than said first predetermined diameter.